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09/417,251  
BB1085 US NA  
AMENDMENT AND RESPONSE UNDER 37 CFR 1.111



GAU 163

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:

R. E. CAHOON ET AL.

CASE NO.: BB1085 US NA

APPLICATION NO.: 09/417,251

GROUP ART UNIT: 1635

FILED: OCTOBER 13, 1999

EXAMINER: J. ZARA

FOR: PLANT PROTEIN DISULFIDE ISOMERASES

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**AMENDMENT AND RESPONSE UNDER 37 C.F.R. §1.111**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In response to the Office Action of June 29, 2001 ("Office Action"), please amend the captioned application as follows and consider the following remarks.

**In the Claims:**

**Please cancel** Claims 21 and 31-34 without prejudice or disclaimer.

**Please replace** claims 16, 19, and 20 as follows:

*Sub 2* 16. (Amended) An isolated polynucleotide comprising:

(a) a nucleotide sequence encoding a polypeptide having disulfide isomerase activity, wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:8, 10, or 16 have at least 85% identity, or

(b) the complement of the nucleotide sequence, wherein the complement and the nucleotide sequence contain the same number of nucleotides and are 100% complementary.

*Sub 2* 19. (Amended) The polynucleotide of Claim 16 wherein the polynucleotide encodes a polypeptide selected from the group consisting of SEQ ID NOS:8, 10, and 16.

20. (Amended) The polynucleotide of Claim 16 wherein the polynucleotide comprises a nucleotide sequence selected from the group consisting of SEQ ID NOS: 7, 9, and 15.

**Please add** the following Claims:

*Sub 2* 13 36. (Added) A vector comprising the polynucleotide of Claim 16.

37. (Added) A seed comprising the chimeric gene of Claim 22.

*Sub 2* 38. (Added) A method for isolating a polypeptide encoded by the polynucleotide of Claim 16 comprising isolating the polypeptide from a cell transformed with said polynucleotide.

**REMARKS**

In the Office Action, claims 31-34 were withdrawn from consideration as being drawn to the non-elected invention, and claims 16-30 and 35 were rejected. In the present